



**GEORGE M. SAUNDERS, Jr., P.E., C.F.E.I.**

**Mechanical Engineer**

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### ***Academic Background***

M.E.M.E., Mechanical Engineering, University of Maryland, 2001

B.S.M.E., Mechanical Engineering, University of Maryland, 1995

B.S., Physics, Frostburg State University, 1994

### ***Registrations and Qualifications***

Registered Professional Engineer, State of Maryland (29241), Commonwealth of Pennsylvania (PE070469), State of New Jersey (24GE04665500), Commonwealth of Virginia (0402-042997), State of Delaware (14969), State of Arkansas (14441).

Certified Fire and Explosion Investigator, Registration No. 8599-3590

Certified Training Instructor, Aerial Work Platforms and Rough-Terrain Forklifts, No. 26746

Private Pilot, FAA Certification No. 3549524, Instrument Rated

### ***Professional Work History***

*Senior Mechanical Engineer*, Beacon Scientific, 2012 - Present

*Senior Mechanical Engineer, Consultant*, CED Investigative Technologies Inc., 2012- 2014

*Senior Mechanical Engineer*, CED Investigative Technologies Inc., 2002 - 2012

*Senior Helicopter Drive Systems Engineer*, Naval Air Systems Command 1998-2002

*Junior Mechanical Engineer*, Naval Air Systems Command 1995 - 1998

*Junior Mechanical Engineer, (Co-op)* Naval Air Warfare Center - Aircraft Division 1990 - 1995

### ***Professional Societies and Honors***

American Society of Mechanical Engineers

Society of Automotive Engineers International

National Fire Protection Association

American Society of Safety Engineers

National Assoc. of Fire Investigators

ASTM International

### ***Areas of Expertise***

Mechanical Engineering

Fork Lifts

Machine Analysis, Interlocks and Guarding

Mechanical Power Transmission

Accident Reconstruction

Fire Origin & Cause Determination

Treestand Accident Reconstruction and Engineering

Aerial Work Platforms

Heavy Equipment

Consumer Products and Appliances

Mechanical Systems Design and Analysis

Natural and Propane Gas Systems

Explosion Investigation

### ***Continuing Education Seminars***

ASME FMECA (1997)•Gear Design (1996, 1998)•Rolling Element Bearing Design (1996)•Rotary Wing Technology (2000)•Turbine Engines (1994, 1996)•Investigation of Vehicle Fires Seminar (2002)•National Seminar on Fire Analysis Litigation (2002)•National Fire, Arson and Explosion Investigation Training Program (2002, 2012)•Computer Fire Modeling (2002)•Investigation of Gas and Electric Appliance Fires (2004) • Train the Trainer-Aerial Work Platforms (2006, 2013) • Train the Trainer Rough Terrain Forklifts (2006, 2013), Certified Lift Truck Operator (2014), Solid Fuel-Burning Appliances (2014)